

EXHIBIT E

**To Declaration of Matthew J. Hertko ISO Defendants'
Motion to Dismiss for Failure to State a Claim
(Omitted from original filing.)**



**UNITED STATES
PATENT AND TRADEMARK OFFICE**

Assignment abstract of title for Application 09513665

Invention title/Inventor	Patent	Publication	Application	PCT	International registration
METHOD FOR REDUCING INTERFERENCE IN A RECEIVER	6847803	Jan 25, 2005	09513665		
Jyri Rauhala, Olli-Pekka Lunden, Marko Erkkila			Feb 25, 2000		

Assignments (6 of 6 total)

Assignment 6

Reel/frame	Execution date	Date recorded	Properties	Pages
046404/0466	Jun 29, 2018	Jul 19, 2018	13	9

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors

INTELLECTUAL VENTURES ASSETS 81 LLC

Correspondent

LARRY D. THOMPSON, JR.
4306 YOAKUM BLVD
STE 450
HOUSTON, TX 77006

Assignee

AMERICAN PATENTS LLC
2325 OAK ALLEY
TYLER, TEXAS 75703

Assignment 5

Reel/frame	Execution date	Date recorded	Properties	Pages
046275/0948	Jun 01, 2018	Jul 05, 2018	10	5

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors

INTELLECTUAL VENTURES I LLC

Correspondent

INTELLECTUAL VENTURES
MANAGEMENT- IP LEGAL
3150 139TH AVENUE SE
BUILDING 4, FLOOR 3
BELLEVUE, WA 98005

Assignee

INTELLECTUAL VENTURES ASSETS 81 LLC
251 LITTLE FALLS DRIVE
WILMINGTON 19808
UNITED STATES

Assignment 4

Reel/frame	Execution date	Date recorded	Properties	Pages
026637/0611	Jul 18, 2011	Jul 22, 2011	290	12

Conveyance

MERGER (SEE DOCUMENT FOR DETAILS).

Assignors

SPYDER NAVIGATIONS L.L.C.

Correspondent

FOLEY & LARDNER LLP

150 EAST GILMAN STREET
MADISON, WI 53701-1497

Assignee

INTELLECTUAL VENTURES I LLC
2711 CENTERVILLE RD.
SUITE 400
WILMINGTON, DELAWARE 19808

Assignment 3

Reel/frame	Execution date	Date recorded	Properties	Pages
021331/0082	Mar 22, 2007	Aug 01, 2008	1	17

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors

NOKIA CORPORATION

Correspondent

PAUL S HUNTER, FOLEY & LARDNER
LLP
VEREX PLAZA
150 EAST GILMAN STREET
MADISON, WI 53703-1481

Assignee

SPYDER NAVIGATIONS L.L.C.
1209 ORANGE STREET
WILMINGTON, DELAWARE 19801

Assignment 2

Reel/frame	Execution date	Date recorded	Properties	Pages
021329/0782	Jan 30, 2001	Aug 01, 2008	1	31

Conveyance

MERGER (SEE DOCUMENT FOR DETAILS).

Assignors

NOKIA MOBILE PHONES LTD.

Correspondent

PAUL S HUNTER, FOLEY & LARDNER
LLP
VEREX PLAZA
150 EAST GILMAN STREET
MADISON, WI 53703-1481

Assignee

NOKIA CORPORATION
KEILALAHDENTIE 4
02150 ESPOO
FINLAND

Assignment 1

Reel/frame	Execution date	Date recorded	Properties	Pages
010598/0927	Dec 08, 1999	Feb 25, 2000	1	4

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors

RAUHALA, JYRI
LUNDEN, OLLI-PEKKA
ERKKILA, MARKO

Correspondent

PERMAN & GREEN, LLP
CLARENCE A. GREEN
425 POST ROAD
FAIRFIELD, CONNECTICUT
06430-6232

Assignee

NOKIA MOBILE PHONES LTD.

KEILALAHDENTIE 4
02150 ESPOO

FINLAND